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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3

Complete if Known

Application Number	10/470,616
Filing Date	10/10/2005
First Named Inventor	Hartley
Group Art Unit	1444
Examiner Name	Shin
Attorney Docket Number	101-27

01/15/02

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
REZ	3,705,043			Daniel M. Zabiak	12/ 05/ 1972	
REZ	4,069,080			Osborne	01/ 17/ 1978	
REZ	4,606,859			Duggan et al.	08/ 19/ 1986	
REZ	4,657,345			Gordon	04/ 14/ 1987	
REZ	4,892,584			Chapman	01/ 09/ 1990	
REZ	4,969,969			Powers	11/ 13/ 1990	
REZ	5,093,147			Andrus et al.	03/ 03/ 1992	
REZ	5,113,479			Anderson et al.	05/ 12/ 1992	
REZ	5,279,693			Robinson, et al.	01/ 18/ 1994	
REZ	5,833,743			Elwakil	11/ 10/ 1998	
REZ	5,837,042			Lent, et al.	11/ 17/ 1998	
REZ	5,897,694			Woolf	04/ 27/ 1999	
REZ	5,990,197			Escano et al.	11/ 23/ 1999	
REZ	6,010,564			Zhu et al.	01/ 04/ 2000	
REZ	6,136,079			Evans et al.	10/ 24/ 2000	
REZ	6,149,719			Houle	11/ 21/ 2000	
REZ	6,174,356			Evans et al.	01/ 16/ 2001	
REZ	3,424,890			Van Ruyven, Lodewijk J.	01/ 28/ 1969	
REZ	6,183,549			Wight	02/ 06/ 2001	
REZ	6,190,422			Carr	02/ 20/ 2001	

FOREIGN PATENT DOCUMENTS

Examiner
Signature

Date
Considered

7/8/04

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 3

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<p>Substitute for form 1449A/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p>(use as many sheets as necessary)</p>				<p>Complete if Known</p>	
<p>Application Number</p>		<p>Filing Date</p>		<p>First Named Inventor</p>	
<p>Group Art Unit</p>		<p>Examiner Name</p>			
Sheet	2	of	3	Attorney Docket Number	101-27

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**Examiner
Signature**

Date Considered

7/8/04

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Sheet 3 of 3

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Application Number

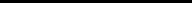
Filing Date

First Named Inventor Hartley

Group Art Unit

Examiner Name

101-27

Examiner Signature		Date Considered	7/8/64
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PTO/SB/08A (10-01)

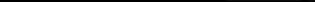
Approved for use through 10/31/2002. OMB 0651-0031

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				RECEIVED MAR 18 2003 GROUP 1700	
Sheet	1	of	1	Attorney Docket Number	101-27

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

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		Country Code ³ -Number ⁴ - Kind Code ⁵ (if known)			
RET		JP 08-230043	09/ 10/ 1996	SHINDO ISAMU	ABST. TRANSL
RET		JP 06-297828	10/ 25/ 1994	TOMITA	ABST. TRANSL
RET		JP 62-142092	06/ 25/ 1987	USHIKI YOJI	ABST. TRANSL
RET		JP 09-220765	08/ 26/ 1997	NEZAKI SHINJI	ABST. TRANSL
RET		WO 98/02294	01/ 22/ 1998	WOOD, John	
RET		WO 00/20157	04/ 13/ 2000	The Welding Institute	
RET		WO 01/07524	02/ 01/ 2001	AVECIA LIMITED	

Examiner Signature		Date Considered	7/18/04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

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of

Complete if Known

Application Number	10/047,006
Filing Date	1-15-2002
First Named Inventor	Hartley
Art Unit	1725
Examiner Name	
Attorney Docket Number	101-27

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	7/8/04
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